

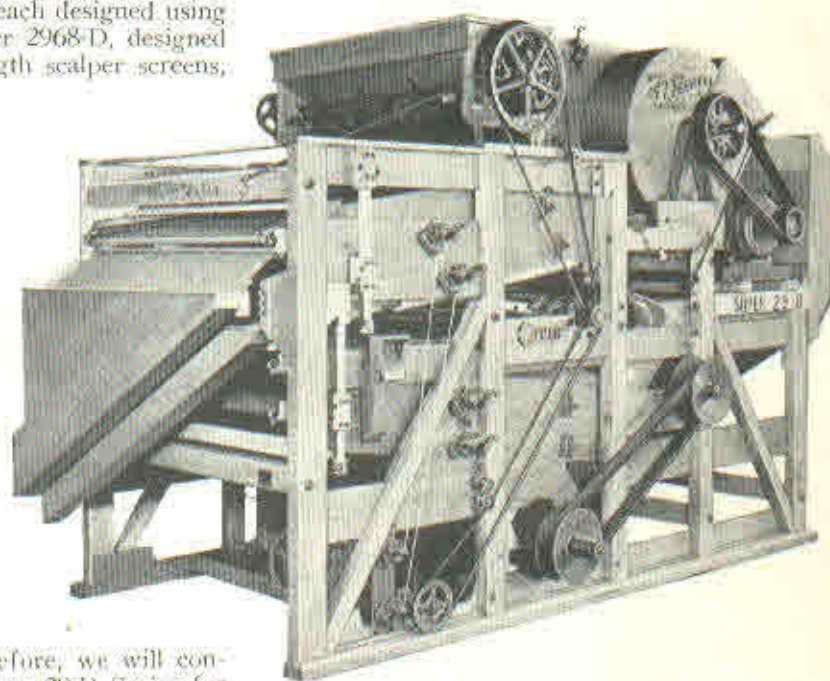
## The Clipper Super 29-D PRECISION SEED CLEANER

Used the World Over by MORE Seedsmen Than ALL OTHER Makes and Models Combined!

Five CLIPPERS are available of this design: the 29-D, the 1-foot narrower 297-D, and the 1-foot wider 298-D, each designed using four screens; the 2969-D and the 1-foot wider 2968-D, designed using the same four screens plus two full-length scalper screens, one in each shoe.

This series, which receives world-wide acclaim, earned every bit of its popularity on the basis of exceptional selective performance and durability. Nearly every qualified seed house throughout the United States uses at least one Super 29-D while many plants have from two to banks of forty of these high quality cleaners operating side by side on a single floor.

In August of 1957 our company announced the brand new Super X concept of precision design which is applied to each of the above models as described on pages 5A and 6A. However, while we claim many further refinements found in the Super X over the Super design, many Super 29-D users are still ordering this old standby because they are completely satisfied with its capabilities. . . . therefore, we will continue showing, describing and building the Super 29-D Series for as long as it remains in this status.



### Here are a few outstanding features:

- Two large Top Suction Fans — quickly remove light trash.
- FAMOUS CLIPPER Bottom Blast Fan — provides the ultimate in final selective air separation.
- Variable Shoe Shake — gives desired shoe vibration — helps secure proper seed travel, resulting in closer screen separations.
- Adjustable-Pitch Screens — aid in determining and maintaining the exact desired seed travel.
- Variable Air Regulator — adjusts bottom-blast output.
- Double Traveling Screen Brushes under each screen — keep perforations clean, giving peak screen efficiency.

Here's an example of how a Super 29-D or the wider 298-D handles a lot of red clover which contains buckhorn, curled dock, hare's ear mustard, sorrel, timothy, normal dirt and trash —

The roll-feed hopper feeds the mixture steadily and evenly through the hopper air leg across the full width of the top screen. The large right top suction fan is adjusted to draw air up through the seed in the hopper air passage, removing most of the light trash before it can touch the top screen.

We're using a 1/15 round-holed top screen which quickly scalps off the sticks, stems, etc., and lets the clover drop through to the lower screen in the top shoe.

The bottom screen is a 1/21 (or 20x22) square wire mesh. It drops and discharges the sorrel, timothy and other small round seed at the machine's side, holding up

and routing the clover and remaining material to the top screen of the lower shoe.

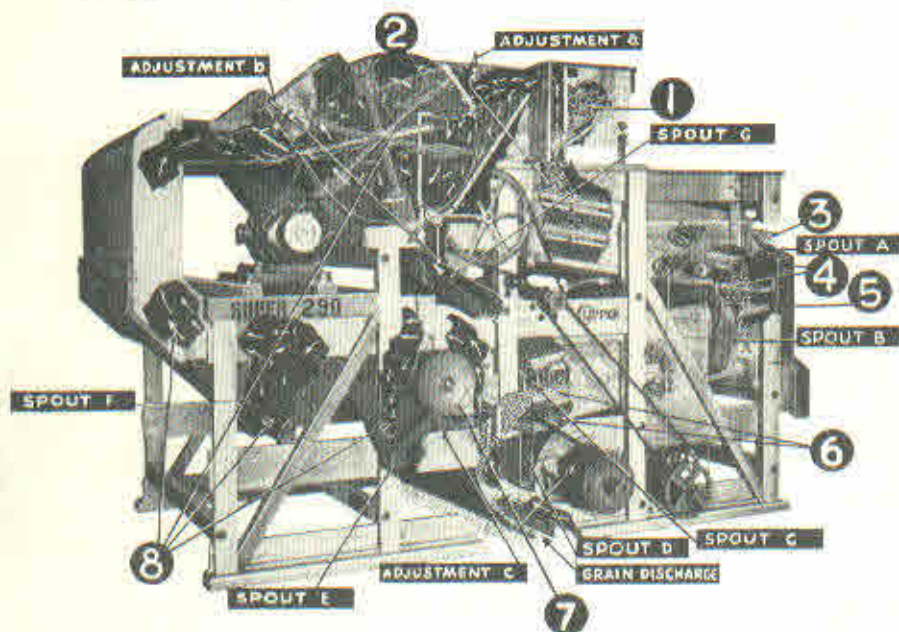
A 3/64 x 5/16 metal top screen acts as a second scalper to quickly remove the mustard, dock and other seed of size and shape that were missed by the 1/15.

Using a 6x22 wire cloth finishing screen, the immature clover, sand and a greater portion of buckhorn and peeled sorrel are dropped through to a discharge pan. The clover seed then fall through the vertical air column where the synchronized blast and suction weighs each kernel, making a final air separation by weight. The remaining dust is blown to the dust house, and the heavier foreign material drops into one of two settling chambers.

SEE OTHER SIDE OF SHEET FOR FEATURES, SPECIFICATIONS



## The Clipper Super 29-D PRECISION SEED CLEANER



1. Hopper—a special, slowly revolving, fluted roll to force-feed the commodity into the hopper air passage for the first air separation. Gives even distribution across the width of top screen.
2. Right suction fan adjusted by Adjustment (a) control removes light trash to the dust house; the heavier trash discharges at Spout (G).
3. Spout (A) discharges top screen scalplings. Quick change-over can also be made at this point to convert one finishing screen to a third scalper.
4. Discharge thru the bottom screen in the top shoe can be directed out of Spout (B) or joined with discharge of final separation out of Spout (D) as desired.

5. Scalplings from the top screen in the lower shoe are discharged from Spout (C).
6. Immature seed, splits, dirt, smaller weed seed, etc., that drop through the fourth or finishing screen are discharged from Spout (D).
7. The final air separation occurs after the finishing screen has done its work. At this time the variable air adjustment is made at Adjustment (c) synchronized with left top suction Adjustment (b).
8. Heavier material drops into Spout (E), and lighter material not carried out to the dust house drops into settling chamber discharge at Spout (F).

Two rubber rolls for crushing clay lumps in beans or one steel and one rubber roll for crushing wild onions can be factory-installed between the shoes, if desired, at extra cost.

### SPECIFICATIONS—CAPACITIES

Model Number	297-D	29-D	298-D	2969-D	2968-D
Screen Size (inches)	34x42	42x60	54x60	42x60	54x60
Bu. per Hr. — Seeds	30-60	60-80	75-100	60-80	75-100
Bu. per Hr. — Seed Grain	50-100	100-150	125-200	100-150	125-200
Bu. per Hr. — Beans	75-150	200-300	250-400	200-300	250-400
No. of Screens in Cleaner	4	4	4	6	6
No. of Screens Furnished	12	12	12	12	12
Extreme Height (inches)	90	96	96	112	112
Extreme Length (inches)	130½	141½	141½	155	155
Extreme Width (inches)	65	76	88	76	88
Length on Floor (inches)	118	129½	129½	129½	129½
Width on Floor (inches)	48	56	68	56	68
Width Between Sills (inches)	38	46	58	46	58
Height to Where Grain Enters (inches)	90	96	96	112	112
Height to Drive Shaft (inches)	73	80	80	96¼	96¼
Drive Shaft Speed (RPM)	900	900	900	900	900
Horsepower Required	5	7½	10	7½	10
Shipping Weight (lbs.)	3000	3350	3800	4250	4500

Drive shaft diameter of 297-D—1 11/16 in. — other models listed—1 15/16 in.

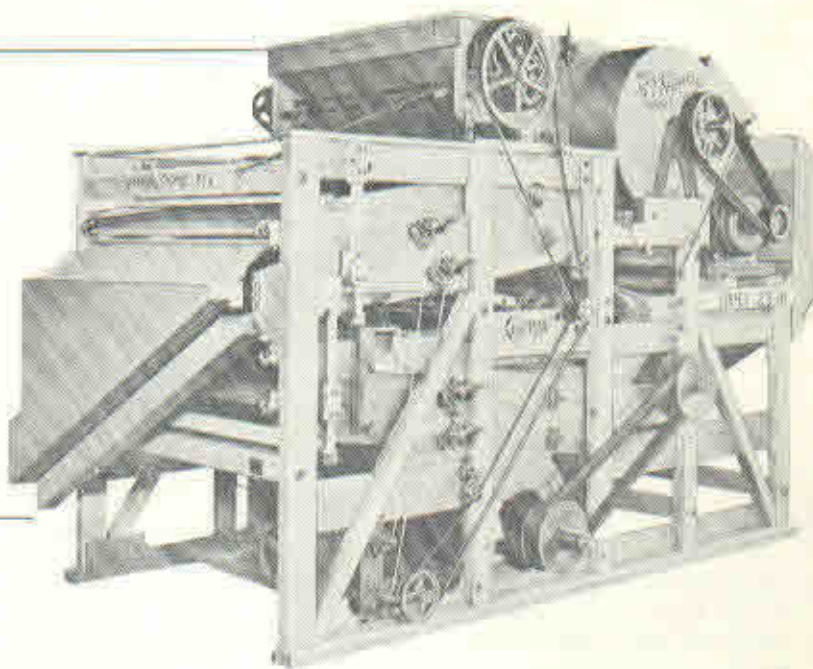


## The Clipper Super 29-D PRECISION SEED CLEANER

This series has exceptional selective performance ability and is surpassed only by the Clipper Super X Series as the finest of Precision Seed Cleaners.

available in four models —

- 4 screen 29-D and 298-D
- 6 screen 2969-D and 2968-D



### Here are a few outstanding features:

- Two large Top Suction Fans — quickly remove light trash.
- CLIPPER Bottom Blast Fan — provides the ultimate in final selective air separation.
- Variable Shoe Shake — gives desired shoe vibration — helps secure proper seed travel, resulting in closer screen separations.
- Adjustable-Pitch Screens — aid in determining and maintaining the exact desired seed travel.
- Variable Air Regulator — adjusts bottom-blast output.
- Double Traveling Screen Brushes under each screen — keep perforations clean, giving peak screen efficiency.

### Extras available at additional cost:

- Variable Hopper Drive — necessary as extra equipment when the metering hopper is ordered on the cleaner. The metering hopper is especially designed to handle the most trashy grasses.
- Screen Knockers — for top screens only. Aids in reaching top capacity when close top screen separation is involved.
- Expanded Metal Guards — available for all v-belt drives as safety precaution.

Here's an example of how a Super 29-D or the wider 298-D handles a lot of red clover which contains buckhorn, curled dock, hare's ear mustard, sorrel, timothy, normal dirt and trash —

The roll-feed hopper feeds the mixture steadily and evenly through the hopper air leg across the full width of the top screen. The large right top suction fan is adjusted to draw air up through the seed in the hopper air passage, removing most of the light trash before it can touch the top screen.

We're using a 1/15 round-holed top screen which quickly scalps off the sticks, stems, etc., and lets the clover drop through to the lower screen in the top shoe.

The bottom screen is a 20x22 square wire mesh. It drops and discharges the sorrel, timothy and other small round seed at the machine's side, holding up and routing the clover

and remaining material to the top screen of the lower shoe.

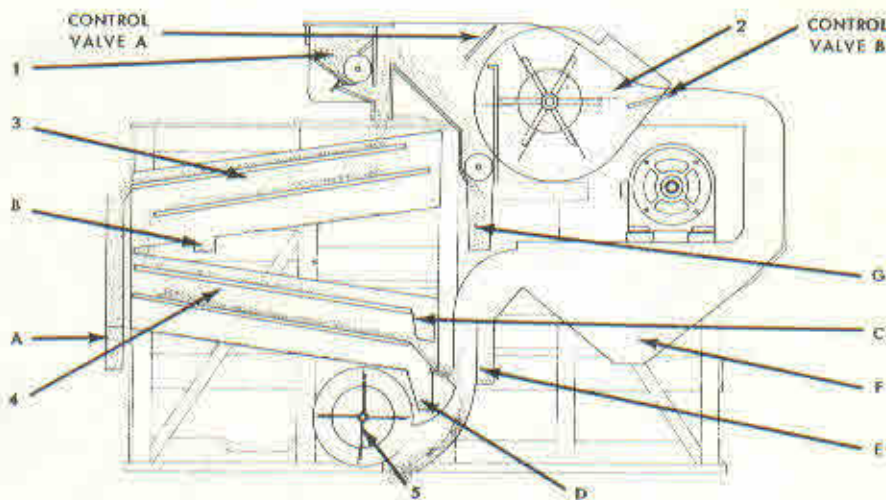
A 3/64x5/16 metal top screen acts as a second scalper to quickly remove the mustard, dock and other seed of size and shape that were missed by the 1/15.

Using a 6x22 wire cloth finishing screen, the immature clover, sand and a greater portion of buckhorn and peeled sorrel are dropped through to a discharge pan. The clover seed then fall through the vertical air column where the synchronized blast and suction weighs each kernel, making a final air separation by weight. The remaining dust is blown to the dust house, and the heavier foreign material drops into one of two settling chambers.

SEE OTHER SIDE OF SHEET FOR COMMODITY FLOW, SPECIFICATIONS — CAPACITIES



## The Clipper Super 29-D PRECISION SEED CLEANER



COMMODITY FLOW

- HOPPER** — a slowly revolving, fluted roll force-feeds the commodity into the hopper air passage for the first air separation and evenly distributes the seed across the full width of the top screen.
- SUCTION FAN** — the front air is adjusted by Control Valve A and removes light trash to the dust house while the heavier trash discharges at Spout G.
- TOP SHOE** — the good seed passes through the top screen which scalps off large, bulky trash and over the bottom screen which sifts out dirt, small weed seeds, splits, shrunken or broken kernels and other small trash. The top screen scalplings discharge from Spout A. The fines from the bottom screen discharge from Spout B, or can be joined with the final separation from Spout D.
- BOTTOM SHOE** — the good seed which passes over the bottom screen in the top shoe drops to the top screen in the bottom shoe. This screen is selected to perform a second scalping operation. The scalplings from this screen

discharge from Spout C. The good seed falls through the top screen to a final finishing screen which drops everything smaller than the good product. The immature seed, splits, dirt and small weed seed that drop through the fourth screen (finishing screen) discharge from Spout D.

- BOTTOM BLAST FAN** — the final air separation occurs after the finishing screen has done its work. At this time the variable air adjustment is made which is synchronized with the top suction Control Valve B. The heavier material drops into Spout E and the lighter material not carried out to the dust house drops into the settling chamber and discharges from Spout F.

As is true with the Super X 29-D the screens can be quickly set up as three tops and one finishing screen by re-arranging the catch-all spouts furnished.

Two rubber rolls for crushing clay lumps in beans or one steel and one rubber roll for crushing wild onions can be factory-installed between the shoes, if desired, at extra cost.

### SPECIFICATIONS — CAPACITIES

Model Number	29-D	298-D	2969-D	2968-D
Screen Size (inches)	42x60	54x60	42x60	54x60
Bu. per Hr. — Seeds	60-80	75-100	60-80	75-100
Bu. per Hr. — Seed Grain	100-150	125-200	100-150	125-200
Bu. per Hr. — Beans	200-300	250-400	200-300	250-400
No. of Screens in Cleaner	4	4	6	6
No. of Screens Furnished	12	12	12	12
Extreme Height (inches)	96	96	112	112
Extreme Length (inches)	141½	141½	155	155
Extreme Width (inches)	76	88	76	88
Length on Floor (inches)	129½	129½	129½	129½
Width on Floor (inches)	56	68	56	68
Width Between Sills (inches)	46	58	46	58
Height to Where Grain Enters (inches)	96	96	112	112
Height to Drive Shaft (inches)	80	80	96¼	96¼
Drive Shaft Speed (RPM)	900	900	900	900
Horsepower Required	7½	10	7½	10
Shipping Weight (lbs.)	3350	3800	4250	4500

Drive shaft diameter of all models listed — 1-15/16 in.